


## **Supplementary figures, 2019 novel coronavirus RT-PCR development**

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[illegible]

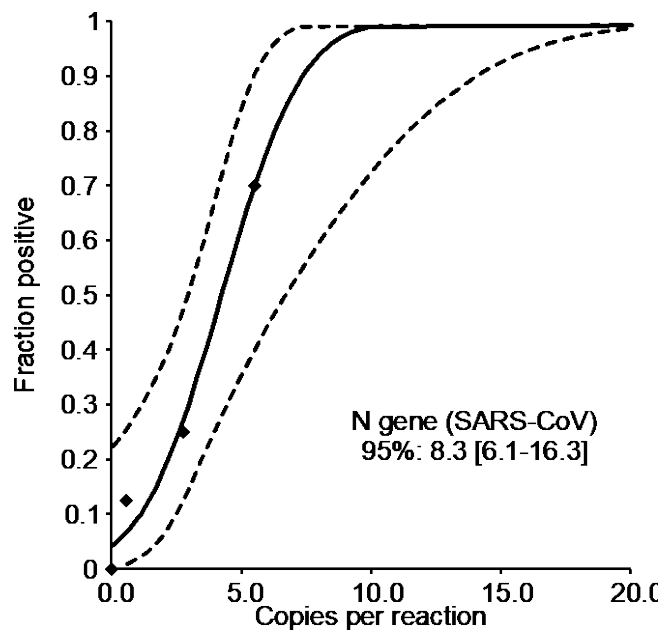

  
 GTGARATGGTCATGTTGTGGCGG--CCAGGTGGWACRTCACTCGGTGTATGC--TATGCTAATAGTGTSTTTAAACATYTG
   
 RdRp\_SARSrF                      RdRp\_SARSrP1                      RdRp\_SARSrR

GTGARATGTCATGTGTGGGG--CCAGGTGGWACRTCATCGGTGATGC--TATGCTAATAAGTGTSTTTAACATYTG  
 RdRp\_SARSrF RdRp\_SARSrP1 RdRp\_SARSrR

The sequence logo displays the conservation of nucleotides across three regions of the RdRp protein: RdRp\_SARSrF (positions 1-10), RdRp\_SARSrP1 (positions 10-20), and RdRp\_SARSrR (positions 20-30). The y-axis represents the information content in bits, ranging from 0.00 to 1.50. The x-axis represents the position in the sequence, from 1 to 100. Nucleotides are indicated by letters A, C, G, T above the alignment. RdRp\_SARSrF shows high conservation at positions 1-10. RdRp\_SARSrP1 shows high conservation at positions 10-20. RdRp\_SARSrR shows high conservation at positions 20-30.

[illegible]

**Supplementary Figure 1.** Non-redundant alignments of SARS-related CoVs focused on oligonucleotide binding sites of all assays (top to bottom: RdRp, E, N). Viruses not present in these alignments have been removed because their binding sites are 100% identical to one of the members of the alignment. (“--”) means sequence gaps not covered by oligonucleotides.



**Supplementary Figure 2: Additional confirmatory assay: N gene.** Limit of detection study for N gene assay. Technical LOD = 8.3 RNA copies/reaction, at 95% hit rate; 95% CI: 6.1-16.3 RNA copies/reaction. Y-axis shows positive results in all parallel reactions performed, squares are experimental data points resulting from replicate testing of given concentrations (x-axis) in parallel assays (8 replicate reactions per datum point). The inner line is a probit curve (dose-response rule). The outer dotted lines are 95% confidence intervals.